

THE IMPACT OF JULIE INVENTION, EDUCATION & PRODUCT-PERFORMANCE HISTORY ON THE ELECTRONICS INDUSTRY

ACCURACY	PRODUCT	JULIE BREAKTHROUGH	NUMBER IN USE BEFORE	JULIE UNITS IN USE ¹	TOTAL PERFORMANCE (UNITS MONTHS) ¹	ACCURACY
0.01% TO 0.001%	PRECISION RESISTORS	1955	20,000	1,000,000	50 MILLION	0.01% TO 0.001%
1 PPM STABLE	PRECISION RESISTORS	1955	500?	7,000	350 THOUSAND	1 PPM STABLE
0.0005%	PRECISION RESISTANCE BRIDGE	1955	20?	139	5 THOUSAND	0.0005%
1 PPM	PRECISION DIVIDER	1957	NONE	460	23 THOUSAND	1 PPM
0.0005% TO 0.002%	PRECISION ZENER	1957	NONE	357	15 THOUSAND	0.0005% TO 0.002%
1 PPM	STANDARD CELL AIR BATH	1958	NONE	270	9 THOUSAND	1 PPM
0.0002% TO 0.001%	PRECISION VOLT BOX	1958	NONE?	174	9 THOUSAND	0.0002% TO 0.001%
1 PPM TO 0.003%	POWER, CURRENT CALIBRATOR SUPPLY	1959	NONE	176	8 THOUSAND	1 PPM TO 0.003%
0.0002% TO 0.001%	PRECISION POTENTIOMETER	1959	?	159	8 THOUSAND	0.0002% TO 0.001%
0.0002% TO 0.001%	"SYSTEM CONCEPT" INSTRUMENT	1959	NONE	421	20 THOUSAND	0.002% TO 0.001%
1 PPM TO 0.0005%	TRANSPORTABLE STANDARDS LABORATORY	1963	NONE	140	6 THOUSAND	1 PPM TO 0.0005%
1 PPM TO 0.0005%	"MODERN DC MULTIVIDER"	1963	NONE	140	6 THOUSAND	1 PPM TO 0.0005%

The history of JRL's innovation and advancement of the art will never be complete; a multi-decade long-range R&D program ensures that new and better JRL techniques, instruments, and components, will continue to appear for many years to come. The record presented by these statistics is best appreciated when considered in conjunction with the chronology shown on pages 2 and 3 of this bulletin.

¹As of March, 1966

